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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/619,738	07/14/2003	Sabhapathi N. Annamaneni	22272-08030	7030
758 FENWICK & V	7590 11/16/200° WEST LLP	EXAMINER		
SILICON VAL	LEY CENTER	ORTIZRODRIGUEZ, CARLOS R		
	801 CALIFORNIA STREET MOUNTAIN VIEW, CA 94041		ART UNIT	PAPER NUMBER
			2125	
				7
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•		•	11/16/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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1		Applicatio	n No.	Applicant(s)		
Office Action Summary		10/619,73	8	ANNAMANENI ET AL.		
		Examiner		Art Unit		
			z-Rodriguez	2125		
The Period for Rep	MAILING DATE of this communically	cation appears on the	cover sheet with the c	orrespondence address		
WHICHEVI - Extensions of after SIX (6) - If NO period - Failure to repair Any reply rec	ENED STATUTORY PERIOD FO ER IS LONGER, FROM THE MA if time may be available under the provisions of MONTHS from the mailing date of this commu- for reply is specified above, the maximum stat oly within the set or extended period for reply valued by the Office later than three months af not term adjustment. See 37 CFR 1.704(b).	AILING DATE OF TH of 37 CFR 1.136(a). In no eve unication. tutory period will apply and wil will, by statute, cause the appli	IS COMMUNICATION  nt, however, may a reply be tin  l expire SIX (6) MONTHS from cation to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).		
Status						
1)⊠ Resp	oonsive to communication(s) filed	d on <u>04 September 2</u>	<u>007</u> .	,		
2a) This	This action is <b>FINAL</b> . 2b) This action is non-final.					
3) Since	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
close	ed in accordance with the practic	e under <i>Ex parte Qu</i>	ayle, 1935 C.D. 11, 4	53 O.G. 213.		
Disposition of	Claims					
4) Clain	m(s) <u>1-57</u> is/are pending in the a <sub>l</sub>	pplication.				
4a) O	of the above claim(s) is/ar	e withdrawn from cor	isideration.	·		
5) Clain	n(s) is/are allowed.			,		
•	n(s) <u>1-3, 9-18, 21-31, 37-46 and</u>					
•	n(s) <u>4-8,19,20,32-36,47 and 48</u> i					
8) Clain	m(s) are subject to restrict	tion and/or election re	equirement.			
Application Pa	apers					
9)∏ The s	specification is objected to by the	e Examiner.				
10) The c	drawing(s) filed on is/are:	a) accepted or b)[	objected to by the	Examiner.		
• •	cant may not request that any objec					
•	acement drawing sheet(s) including path or declaration is objected to					
Priority under	· 35 U.S.C. § 119					
12)∭ Ackno a)∭ All	owledgment is made of a claim f b) ☐ Some * c) ☐ None of:	for foreign priority und	ler 35 U.S.C. § 119(a	n)-(d) or (f).		
1.	Certified copies of the priority of					
2. 🔲	•					
3.	·	-		ed in this National Stage		
* Coo th	application from the Internation			ed .		
See th	ne attached detailed Office action	in for a list of the certif	ieu copies not receive	su.		
Attachment(s)	· · · · · · · · · · · · · · · · · · ·		A) Intendent Comment	· (PTO 412)		
	eferences Cited (PTO-892) raftsperson's Patent Drawing Review (P	TO-948)	4) Interview Summary Paper No(s)/Mail D			
· ==	Disclosure Statement(s) (PTO/SB/08)	·	5) Notice of Informal F 6) Other:	Patent Application		

10/619,738 Art Unit: 2125

#### **DETAILED ACTION**

### Response to Arguments

1. Applicant's arguments, filed 9/4/07, have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made (see rejections below).

# Claim Objections

2. Claims 4-8, 19-20, 32-36 and 47-48 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 1-3, 9-18, 21, 23-24, 26-28, 30-31, 37-46, 49, 51-52 and 54-56 are rejected under 35 U.S.C. 103(a) as being unpatentable over Burdick et al. U.S. Patent No. 5,889,674 in view of Jaln et al. U.S. Publication No. 2002/0188682.

Regarding claims 1 and 30 Burdick et al discloses a system/method for identifying transactions from WIP status updates, the system/method comprising: an

10/619,738 Art Unit: 2125

adaptor (FIG 5 elements 505, 506, 507 and 508) for receiving WIP status updates for a semiconductor product from at least one supplier in a supply chain for the semiconductor product (C9 L52-67); and a transaction identifier (FIG 5 element 509, C10 L1-3).

But Burdick et al. fails to discloses a comparison of the WIP status updates with a previous WIP status for the semiconductor product.

However, Jaln et al. discloses a comparison of the WIP status updates with a previous WIP status for the semiconductor product (Paragraph 0006).

Therefore at time the invention was made, it would have been obvious to a person of ordinary skill in the art to modify the above invention suggested by Burdick et al. and combining it with the invention disclosed by Jaln et al.

One of ordinary skill in the art would have been motivated to do this modification because in order to provide the feature "push mechanism" where information is shared as soon as it becomes available, as suggested by Jaln et al.

Regarding claim 2 Burdick et al further discloses receiving WIP status updates comprises: receiving the WIP status updates from a single supplier (C1 L15-26).

Regarding claims 3 and 31 Burdick et al further discloses receiving WIP status updates comprises: receiving the WIP status updates from at least two different suppliers (C1 L15-26).

10/619,738 Art Unit: 2125

Regarding claims 9 and 37 Burdick et al further discloses identifying transactions based on a comparison comprises: identifying supply chain events based on a comparison of the WIP status updates with the previous WIP status for the semiconductor product; and interpreting the supply chain events as transactions (C7 L1-10 and C9 L52-67 and C10 L1-3).

Regarding claims 10 and 38 Burdick et al further discloses interpreting the supply chain events as transactions comprises: creating transient WIP status if a supply chain event is interpreted as at least two transactions (C9 L64-66).

Regarding claims 11 and 39 Burdick et al further discloses that the WIP status updates are expressed in lots, each lot containing a quantity of the semiconductor product; and the step of identifying transactions occurs on a lot basis (C9 L64-67).

Regarding claims 12 and 40 Burdick et al further discloses the transactions are selected from a predefined group that includes: a start transaction, a move transaction, a merge transaction, a split transaction, a scrap transaction, a bonus transaction, and an update transaction (C10 L1-3 and C13 L1-22).

Regarding claims 13 and 41 Burdick et al further discloses identifying transactions comprises: identifying transactions based on a change in the quantity of

10/619,738 Art Unit: 2125

semiconductor product in a lot (Claim 1).

Regarding claims 14 and 42 Burdick et al further discloses identifying transactions comprises: grouping lots from the WIP status update with lots from the previous WIP status; and identifying transactions within the groupings (Claim1).

Regarding claims 15 and 43 Burdick et al discloses grouping lots is based on a customer product ID (Claim 1).

Regarding claims 16 and 44 Burdick et al further discloses grouping lots is based on a main lot ID (Claim 1).

Regarding claims 17 and 45 Burdick et al further discloses grouping lots is based on a customer lot ID (Claim 1).

Regarding claims 18 and 46 Burdick et al further discloses identifying transactions within the groupings comprises: classifying lots according to a change in the quantity of the lot from the previous WIP status to the WIP status update; and identifying transactions by combining lots according to their classifications (Claim 1).

Regarding claims 21 and 49 Burdick et al further discloses identifying transactions comprises: accessing a set of rules governing an identification of

10/619,738 Art Unit: 2125

transactions; and applying the rules to the WIP status updates and the previous WIP status (C9 L60-63 and C8 L20-22).

Regarding claims 23 and 51 Burdick et al further discloses updating the previous WIP status for the semiconductor product based on the transactions (C10 L1-3, C6 L8-19 and Claim1).

Regarding claims 24 and 52 Burdick et al further discloses making reports of the updated WIP status available to a customer (C8 L56-58 and C7 L8-10).

Regarding claims 26 and 54 Burdick et al further discloses processing the transactions to update a transactional enterprise system (C13 L37-58).

Regarding claims 27 and 55 Burdick et al further discloses that the transactional enterprise system is an MES, an ERP, or a SCM system (C9 L64-67).

Regarding claims 28 and 56 Burdick et al further discloses updating the previous WIP status for the semiconductor product based on the updated transactional enterprise system (C9 L64-67).

2. Claims 22, 25, 50 and 53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Burdick et al. U.S. Patent No. 5,889,674 in view of Jaln et al. U.S.

10/619,738 Art Unit: 2125

Publication No. 2002/0188682 and in view of "Oracle E-Business Suite High-Tech Semiconductor Industry Solutions, Achieving Excellence in Manufacturing and Customer Response Through Oracle Shop Floor Management" (An Oracle White Paper, February 2003).

Regarding claim 22, 25, 50 and 53 Burdick et al. and Jaln et al. discloses all the limitations of the base claims.

But Burdick et al. and Jaln et al. fail to clearly specify that identifying transactions comprises: defining a priority among transactions; and generating a notification if at least two possible transactions of equal priority can be identified from the same WIP status update(s) and that receiving WIP status updates for a semiconductor product from at least one supplier comprises: intercepting at least one WIP status update transmitted by one of the suppliers to a customer before the WIP status update reaches the customer.

However, Burdick et al. and Jaln et al. in combination with "Oracle E-Business Suite High-Tech Semiconductor Industry Solutions, Achieving Excellence in Manufacturing and Customer Response Through Oracle Shop Floor Management", disclose that identifying transactions comprises: defining a priority among transactions; and generating a notification if at least two possible transactions of equal priority can be identified from the same WIP status updates (Oracle E-Business Suite, High-Tech Semiconductor Industry Solutions, Achieving Excellence in Manufacturing and Customer Response Through Oracle Shop Floor Management, Page 7, Section: Shop Floor Move Transaction) and receiving WIP status updates for a semiconductor product

10/619,738 Art Unit: 2125

from at least one supplier comprises: intercepting at least one WIP status update transmitted by one of the suppliers to a customer before the WIP status update reaches the customer (Oracle E-Business Suite High-Tech Semiconductor Industry Solutions, Achieving Excellence in Manufacturing and Customer Response Through Oracle Shop Floor Management, Page 8, Section: "Lot Genealogy").

Therefore at time the invention was made, it would have been obvious to a person of ordinary skill in the art to modify the above invention suggested by Burdick et al. and Jaln et al. and combining it with the invention disclosed by "Oracle E-Business, Suite High-Tech Semiconductor Industry Solutions, Achieving Excellence in Manufacturing and Customer Response Through Oracle Shop Floor Management", the results of this combination would lead to system and method for automating integration of semiconductor work in process updates.

One of ordinary skill in the art would have been motivated to do this modification because in order to provide flexible tracking of every transaction that happens in a shop floor so that customers could be notified as suggested by Oracle E-Business Suite High-Tech Semiconductor Industry Solutions, Achieving Excellence in Manufacturing and Customer Response Through Oracle Shop Floor Management.

3. Claims 29 and 57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Burdick et al. U.S. Patent No. 5,889,674 in view of Jaln et al. U.S. Publication No. 2002/0188682 and in view of Yang et al. U.S. Pub. No. 2003/0236718.

Regarding claims 29 and 57 Burdick et al. and Jaln et al. discloses all the limitations of the base claims.

But Burdick et al. and Jaln et al. fail to clearly specify wherein the transactions are compatible with RosettaNet.

However, Burdick et al. and Jaln et al. in combination with Yang et al. disclose wherein the transactions are compatible with RosettaNet (Yang et al. Claim 23).

Therefore at time the invention was made, it would have been obvious to a person of ordinary skill in the art to modify the above invention suggested by Burdick et al. and Jaln et al. and combining it with the invention disclosed by Yang et al.

One of ordinary skill in the art would have been motivated to do this modification in order to provide semiconductor manufacturing industry wide standardization as suggested by Yang et al.

### Citation of Pertinent Prior Art

Applicant is respectfully requested to fully consider all the references, in entirely, that appear on the attached list (Form PTO-892). These references disclose subject matter similar to that of applicant's disclosure and may be relied on in a future response to Applicant's remarks or amendments.

10/619,738 Art Unit: 2125

#### Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carlos Ortiz-Rodriguez whose telephone number is 571-272-3766.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo Picard can be reached on 571-272-3749. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

J-P-P-

November 13, 2007

Carlos Ortiz-Rodriguez Patent Examiner Art Unit 2125

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